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Claim Amendment under 37 CFR 1.121(c)

Claim 1.- 2. (Cancelled)

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Claim 3. (Currently amended) A root canal plugging

apparatus for dental work, wherein the apparatus  
plugs a root canal by filling the root canal with a  
filler material, the apparatus comprising:

10 a) a pen tip for compacting the filler material in  
the root canal;

b) a pen for holding the pen tip;

wherein the pen tip is electrically connected to the  
pen, wherein the pen tip has a hollow body, a  
15 heating element, and a temperature sensor, wherein  
the body has a first end and a second end, wherein  
the first end is attached to the pen, wherein the  
second end is capable of being inserted into the  
root canal, wherein the heating element is  
20 positioned inside the body in a way that heat is  
generated at a predetermined distance from the  
second end, and the temperature sensor is positioned  
inside the body, wherein the temperature sensor  
measures the temperature at the second end, The

25 apparatus of claim 1, wherein the pen tip further  
includes a first conductive wire, a second  
conductive wire, and an insulation layer, wherein  
the first conductive wire is electrically connected  
with the heating element and extends toward the  
30 first end, wherein the second conductive wire  
electrically connects the heating element and the  
second end, and wherein the insulation layer  
insulates the first conductive wire from the body.

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Claim 4. (Original) The apparatus of claim 3, wherein  
the body is made of stainless steel, wherein the  
conductive wire is made of silver, wherein the  
heating element is made of chromel, and wherein the  
5 insulation layer is made of polyimide.

Claim 5. - 12. (Cancelled)

Claim 13. (Currently amended) A root canal plugging  
10 apparatus for dental work, wherein the apparatus  
plugs a root canal by filling the root canal with a  
filler material, the apparatus comprising:  
a) a pen tip for compacting the filler material in  
the root canal;  
15 b) a pen for holding the pen tip;  
wherein the pen tip is electrically connected to the  
pen, wherein the pen tip has a hollow body, a  
heating element, and a temperature sensor, wherein  
the body has a first end and a second end, wherein  
20 the first end is attached to the pen, wherein the  
second end is capable of being inserted into the  
root canal, wherein the heating element is  
positioned inside the body in a way that heat is  
generated at a predetermined distance from the  
25 second end, and the temperature sensor is positioned  
inside the body, wherein the temperature sensor  
measures the temperature at the second end, the  
apparatus further comprising a needle for injecting  
the filler material into the root canal, and a gun  
30 for holding the needle, wherein the needle has a cap  
and a needle portion fixed to the cap, wherein the  
cap is detachably attached to the gun, The apparatus  
of claim 8, wherein the pen tip further includes a  
first conductive wire, a second conductive wire, and

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an insulation layer, wherein the first conductive  
wire is electrically connected with the heating  
element and extends toward the first end, wherein  
the second conductive wire electrically connects the  
5 heating element and the second end, and wherein the  
insulation layer insulates the first conductive wire  
from the body.

Claim 14. (Original) The apparatus of claim 13,  
10 wherein the body is made of stainless steel, wherein  
the conductive wire is made of silver, wherein the  
heating element is made of chromel, and wherein the  
insulation layer is made of polyimide.

15 Claim 15.- 16. (Cancelled)

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